

Title (en)
METHOD OF APPLYING ATOMIC LAYER DEPOSITION COATINGS ONTO POROUS NON-CERAMIC SUBSTRATES

Title (de)
VERFAHREN ZUR AUFBRINGUNG VON ATOMSCHICHT-ABLAGERUNGSSCHICHTEN AUF PORÖSEN NICHTKERAMISCHEN SUBSTRATEN

Title (fr)
PROCÉDÉ D'APPLICATION DE REVÊTEMENTS PAR DÉPÔT DE COUCHES ATOMIQUES SUR DES SUBSTRATS POREUX NON CÉRAMIQUES

Publication
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Application
EP 10819262 A 20100915

Priority

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- US 24469609 P 20090922
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Abstract (en)
[origin: WO2011037798A1] A method of depositing a conformal coating on a porous non-ceramic substrate requires reactive gases to flow through the substrate so as to leave a conformal coating behind. The process can be used to leave a hydrophilic surface on the interior pores of the substrate, even when the substrate is of a naturally hydrophobic, e.g., olefinic material. The method can be used in a roll-to-roll process, or in a batch process. In some convenient embodiments of the latter case, the batch reactor and the conformally coated substrate or substrates can together go on to be part of the end product, e.g., a filter body and the filter elements respectively.

IPC 8 full level
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C08J 9/365 (2013.01 - EP KR US); **C23C 16/045** (2013.01 - EP KR US); **C23C 16/403** (2013.01 - EP KR US); **C23C 16/45525** (2013.01 - EP KR US); **C23C 16/45546** (2013.01 - EP KR US); **C23C 16/45555** (2013.01 - EP KR US); **C23C 16/545** (2013.01 - KR); **D06C 29/00** (2013.01 - EP US); **D06M 11/36** (2013.01 - EP KR US); **D06M 11/45** (2013.01 - EP KR US); **D06M 11/53** (2013.01 - EP KR US); **D06M 11/58** (2013.01 - EP KR US); **D06M 23/005** (2013.01 - EP US); **C08J 2201/038** (2013.01 - EP US); **H01L 21/02422** (2013.01 - EP US); **H01L 21/02428** (2013.01 - EP US); **H01L 21/02532** (2013.01 - EP US); **Y10T 428/1362** (2015.01 - EP US); **Y10T 428/1376** (2015.01 - EP US); **Y10T 428/249958** (2015.04 - EP US); **Y10T 442/2861** (2015.04 - EP US)

Citation (search report)

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- See references of WO 2011037798A1

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